

# Division of Materials and Tests

## TDOT Certification: Hot Mix Asphalt Certification Program

### Course Title: Hot Mix Asphalt Certified Plant Technician Course

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### Course Description

A Certified Plant Technician should demonstrate a working knowledge of operations at a hot mix asphalt plant and the submittal of pertinent reports including an understanding of AASHTO / ASTM Test Methods and TDOT Specifications.

### Scope of Course

The course covers plant setup, applicable forms, appropriate calculations, and the following AASHTO and ASTM Test Methods:

- AASHTO T 2 - Standard Practice of Sampling Aggregates
- AASHTO T 11 - Materials Finer Than No. 200 Sieve in Mineral Aggregates by Washing
- AASHTO T 27 - Sieve Analysis of Fine and Coarse Aggregates
- AASHTO T 30 - Mechanical Analysis of Extracted Aggregates
- AASHTO T 84 - Specific Gravity and Absorption of Fine Aggregate
- AASHTO T 85 - Specific Gravity and Absorption of Coarse Aggregate
- AASHTO T 164 - Quantitative Extraction of Bitumen from Bituminous Paving Mixtures
- AASHTO T 166 - Bulk Specific Gravity of Compacted Bituminous Mixtures Using Saturated Surface-Dry Specimens
- AASHTO T 168 - Sampling Bituminous Paving Mixtures
- AASHTO T 209 - Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
- AASHTO T 248 - Reducing Samples of Aggregate to Testing Size
- AASHTO T 255 - Total Moisture Content of Aggregate by Drying
- AASHTO T 308 - Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the Ignition Method
- TDOT Test Method for Stripping (Ten Minute Boil Test) TDOT Test Method for Coating
- TDOT Test method for Glassy Particles in Slag
- TDOT Test Method for Fractured Face Count for Marshall Mixes
- TDOT Test Method for Loss on Ignition for Surface Mixes

## **Prerequisites**

- A general knowledge of asphalt plant operations
- Familiarity with applicable TDOT Standard Specifications, Supplemental Specifications, and Special Provisions

## **Certification Requirements**

- TDOT will grant a 5 year certification only to those applicants who meet the following requirements:
- Attendance of the 4-day course in its entirety
- Successful completion of a 6 hour examination with a passing score of 70% or above (The exam is OPEN BOOK and consists of true/false, multiple choice and word problems)
- Demonstration of his/her abilities to Regional Materials and Tests Personnel

## **Recertification Requirements**

- Must attend a ½ day seminar/workshop for updates of any changes to specifications and test methods since certification
- The technician must re-demonstrate within one year of the ½ day seminar/workshop to maintain certification

## **NOTICES:**

**Cheating on any level of the exam WILL NOT BE TOLERATED and will result in immediate expulsion from the course and notification to superiors.**

**The use of cell phone calculators WILL NOT be permitted during exam.**

**A valid PHOTO I.D. IS REQUIRED upon check-in.**